## **ENVIRONMENTAL CHEMISTS**

Date of Report: 07/20/00 Date Received: 07/06/00

Project: Metro Self Monitor, PO# M64511

Date Extracted: 07/11/00

Date Analyzed: 07/12/00 and 07/13/00

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Land to the first the second of the second o	<u>comium</u>	Copper	<u>Nickel</u>	Zinc
Laboratory ID					
					Lety West Will We
M64511		0.74	0.41	0.70	< 0.05
007021-01					allindiki
Megalik aliga	AND SEA	31F4 - 47kb	adda 2865		
Method Blank		<0.05	< 0.05	< 0.05	< 0.05

## **ENVIRONMENTAL CHEMISTS**

Date of Report: 07/20/00 Date Received: 07/06/00

Project: Metro Self Monitor, PO# M64511

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 006121-01 (Duplicate)

Hibertain.				Relative	JAMA 1145-90 M
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.05	< 0.05	nm	0-20
Copper	mg/L (ppm)	< 0.05	< 0.05	nm	0-20
Nickel	mg/L (ppm)	0.05	< 0.05	nm	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 003100-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recov MS	ery	% Recove	ery	Acceptanc Criteria	e RPl	n
Allalyte	Offics	TAGAGI	Hesun	1410		1/1/01/		Officeria	1/1 /	<u> </u>
Chromium	mg/L (ppm)	5	0.05	107		107		80-120	0	. 312
Copper	mg/L (ppm)	5	< 0.05	105		103		80-120	2	
Nickel	mg/L (ppm)	10	0.05	114		117		80-120	3	
Zinc	mg/L (ppm)	5	< 0.05	120		126 vo		80-120	5	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recove	ery Acceptance	e		
Analyte	Units	Level	LCS	LCSD	Criteria	14. <sup>4</sup> . <sup>5</sup>	RPD	
Chromium	mg/L (ppm)	5	106	104	80-120		2	
Copper	mg/L (ppm)	5	107	106	80-120		1	
Nickel	mg/L (ppm)	10	106	108	80-120	45,44	2	
Zinc	mg/L (ppm)	5	104	110	80-120		6	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

vo - The value reported fell outside the control limits established for this analyte.

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 20, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 6, 2000 from your Metro Self Monitor, PO# M64511 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kate Trafton Project Manager

Kate Trof

Enclosures ACU0720R.DOC FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

# 007021

RT1

# SAMPLE CHAIN OF CUSTODY

Send Report To: A LASKAN CORPER Works Contact (75RAC) A. Thompson										
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City, State, Zip See		78134								
Phone # 206-382-8379 FAX # 206-382-4305 Date 7-6-00										
SITE NO. PROJECT NAME PURCHASE ORDER #										
72,38 motro Self monitor M64511										
SAMPLERS (signature)  PROJECT LOCATION										
200 6th Ave 5,										
REMARKS			•			DISPOSAL INF	ORMATION			
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Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	· · · · · · · · · · · · · · · · · · ·	Analys Request				
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05/15/00

#### **ENVIRONMENTAL CHEMISTS**

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3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 20, 2000

## **DUPLICATE COPY**

## INVOICE #00ACU0720-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M64511 - Results of testing requested by Gerry Thompson for material submitted on July 6, 2000.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010 @ \$80 per sample \$80.00 Amount Due \$80.00

FEDERAL TAX ID #(b) (6)